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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,042	08/04/2003	James Pan	Н1930	5299	
29393 7	590 06/14/2004		EXAM	EXAMINER	
ESCHWEILER & ASSOCIATES, LLC			MAI, SO	MAI, SON LUU	
	CITY BANK BUILDING AVE., SUITE 1210		ART UNIT	PAPER NUMBER	
CLEVELAND, OH 44114			2818		
			DATE MAILED: 06/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/634,042	PAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Son L. Mai	2818				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence addre	ess			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be to reply within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS froutute, cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this comm ED (35 U.S.C. § 133).	nunication.			
Status						
1) Responsive to communication(s) filed on 04	August 2003.					
2a) This action is FINAL . 2b) TI	his action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,					
4) ⊠ Claim(s) 1-26 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-26 are subject to restriction and	lrawn from consideration.	/				
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	accepted or b) objected to by the he drawing(s) be held in abeyance. S rection is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR				
11) The oath or declaration is objected to by the	Examiner. Note the attached Onic	e Action of form 1 10	-102.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a line in the internation of the papplication from the line internation of the papplication from the international Bure * See the attached detailed Office action for a line in the internation of the papplication from the internation of	ents have been received. ents have been received in Applica riority documents have been recei eau (PCT Rule 17.2(a)).	ation No ved in this National St	age			
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summa Paper No(s)/Mail	Date				
Notice of Draitsperson's Fatent Clawing Review (FFO-546) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date		Patent Application (PTO-1	52)			

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Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-13, drawn to a structure of dual level memory cell, classified in class 257; subclass 316.
- Claims 14-19, drawn to a method of fabricating a dual level memory cell, classified in class 438, subclass 257.
- III. Claims 20-22, drawn to a method of programming a dual level memory cell, classified in class 365, subclass 185.28.
- IV. Claims 23-24, drawn to a method of erasing a dual level memory cell, classified in class 365, subclass 185.29.
- V. Claims 25-26, drawn to a method of reading a dual level memory cell,classified in class 365, subclass 185.21

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the memory cell as claimed can be made by different processes. The diffusion regions, for example, can be formed by implantation or diffusion.
- 3. Inventions I, III, IV and V are related as product and process of use including: programming, erasing and reading of dual level memory cells. The inventions can be

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shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case there are different ways of using a memory cell as classified in class 365, subclasses 185.28, 185.29 and 185.21.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II or III or IV or V and vice versa, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son L. Mai whose telephone number is 571-272-1786.

The examiner can normally be reached on 8am to 6pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

06-13-04

Son L. Mai Primary Examiner Art Unit 2818